

<110> individual Chin, Chao-Ying

<120> A NOVEL NUCLEIC ACID ENCODING BETA-1,3-GLUCANASE FROM LILY

<130> 1758-000001/US

<140> 10/647,649

<141> 2003-08-26

<160> 3

<170> PatentIn version 3.2

<210> 1

<211> 337

<212> PRT

<213> Lily

<400> 1

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Val Val Leu Ser Ala Ile Pro Arg Gly Val Glu Ser Ile Gly Val Cys 20 25 30

Asn Gly Met Asp Gly Asp Asn Leu Pro Gln Pro Ala Asp Val Val Asn 35 40 45

Leu Tyr Lys Ser Asn Asn Ile Ala Gly Met Arg Leu Tyr Ser Pro Asp 50 55 60

Gln Ala Thr Leu Gln Ala Leu Gln Gly Ser Asn Ile Tyr Leu Ile Leu 65 70 75 80

Asp Val Pro Asn Ser Asp Leu Gln Asn Ile Ala Ser Asp Gln Ser Ala 85 90 95

Ala Thr Asn Trp Val Gln Thr Asn Val Gln Ala Tyr Pro Asn Val Ala 100 105 110

Phe Arg Tyr Ile Ala Val Gly Asn Glu Val Ile Pro Gly Gly Gln Ala 115 120 125

Gln Tyr Val Leu Pro Ala Met Asn Asn Ile Gln Ser Ala Leu Ser Ser 130 135 140

Ala Gly Leu Gln Asn Ile Lys Val Ser Thr Ser Val Ser Phe Gly Val 145 150 / 155 160

10-647649.ST25 Val Gly Thr Ser Tyr Pro Pro Ser Ala Gly Ser Phe Ser Ser Asp Ala 165 170 175 Ser Ser Thr Leu Gly Pro Ile Ile Gln Phe Leu Ala Ser Asn Gly Ser Pro Leu Leu Ala Asn Ile Tyr Pro Tyr Leu Ser Tyr Ala Gly Asn Ser . 195 200 205 Gly Ser Ile Asp Leu Ser Tyr Ala Leu Phe Thr Ala Ser Gly Thr Val 210 215 220 Val Gln Asp Gly Ser Tyr Ala Tyr Asn Asn Leu Phe Asp Ala Met Val 225 230 235 240 Asp Ala Leu Tyr Ser Ala Leu Glu Ser Ala Gly Gly Pro Asn Val Pro 245 250 255 Val Val Ser Glu Ser Gly Trp Pro Ser Ala Gly Gly Thr Ala Ala 260 265 270 Thr Val Ser Asn Ala Gln Thr Tyr Asn Ser Asn Leu Ile Asn His Val 275 280 285 Gly Gln Gly Thr Pro Lys Arg Pro Gly Ala Ile Glu Thr Tyr Ile Phe 290 295 300 Ala Met Phe Asn Glu Asp Gln Lys Gln Pro Gln Gly Ile Glu Asn Asn 305 310 315 320 Phe Gly Leu Phe Tyr Pro Asn Glu Gln Pro Val Tyr Ser Ile Ser Phe 325 330 335 Thr 1125 <212> DNA <213> Lily <400> 60 ttcatggcag ctcagcacat catctccatg gctgccatgg catccctcct tgtagtactc 120 ctcccccagc ccgccgacgt cgtcaacctc tacaagtcca acaacatagc tggcatqcga 180 240 ctctacagcc ccgaccaagc cactctccag gccctccagg gctctaacat ctacctcatc ctcgacgtcc ccaactccga cctccaaaac attgcctccg accaatccgc cgccaccaac 300

10-647649.ST25

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Met Asp Gly Asp Asn Leu Pro Gln Pro Ala Asp Val Val Asn Leu Tyr $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$